Syllabus for Math 331 – Honors Analysis

Instructor: Stephen Semmes, HB 414, semmes@rice.edu.

Office hours: Normally I would say that one can often find me in my office, or make an appointment, but this semester this should be interpreted in terms of Zoom.

Course objectives: A careful treatment of basic topics in real analysis, including metric spaces and their topology, sequences and series, continuity, and differentiation.

Grading: The grades will be based on a series of homework assignments, a mid-term exam, and a final exam.

Absences: Although attendance is not directly included in the grading, students are of course responsible for all of the material covered in class.

Textbook: W. Rudin, *Principles of Mathematical Analysis*, 3rd edition, McGraw-Hill, 1976.

Examinations: There will be a mid-term exam and a final exam, both of which will be take-home.

Assignments: Students are permitted to discuss the homework, but the exams are pledged.

Any student with a disability that requires accomodation is encouraged to contact the instructor and Disability Support Services in the Allen Center.

The information contained in this syllabus, other than the absence policy, may be subject to change with reasonable advance notice, as deemed appropriate by the instructor.

The Dept of Mathematics supports an inclusive learning environment where diversity and individual differences are understood, respected, and recognized as a source of strength. Racism, discrimination, harassment, and bullying will not be tolerated. We expect all participants in mathematics courses (students and faculty alike) to treat each other with courtesy and respect, and to adhere to the mathematics department standards of collegiality, respect, and sensitivity (https://math.rice.edu/department-statement-collegiality-respect-and-sensitivity) as well as the Rice Student Code of Conduct. If you think you have experienced or witnessed unprofessional or antagonistic behavior, then the matter should be brought to the attention of the instructor and/or department chair. The Ombudsperson is also available as an intermediate, informal option, and contacting them will not necessarily trigger a formal inquiry.

Title IX Responsible Employee Notification

Rice University cares about your wellbeing and safety. Rice encourages any student who has experienced an incident of harassment, pregnancy discrimination or gender discrimination or relationship, sexual, or other forms interpersonal violence to seek support through The SAFE Office. Students should be aware when seeking support on campus that most employees, including myself, as the instructor/TA, are required by Title IX to disclose all incidents of non-consensual interpersonal behaviors to Title IX professionals on campus who can act to support that student and meet their needs. For more information, please visit safe.rice.edu or email titleixsupport@rice.edu.